

Experiment Number: 471729

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Butyraldehyde**

CAS Number: **123-72-8**

Date Report Requested: **09/11/2018**

Time Report Requested: **16:19:58**

NTP Study Number:

471729

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	150 ± 3.7	95 ± 3.2	202 ± 10.7	134 ± 5.6	148 ± 21.4
100.0	129 ± 1.2	83 ± 3.8	213 ± 1.2	130 ± 20.9	151 ± 25.7
333.0	121 ± 2.6	86 ± 3.1	198 ± 9.0	149 ± 4.7	180 ± 11.1
1000.0	117 ± 4.6	82 ± 2.4	204 ± 11.1	170 ± 2.8	179 ± 14.8
3333.0	118 ± 5.2	80 ± 6.1	216 ± 5.4	146 ± 4.9	136 ± 12.4
10000.0	140 ± 7.4	Toxic	199 ± 11.6	129 ± 11.9	144 ± 16.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1494 ± 74.0	2245 ± 21.7	1129 ± 82.7
Positive Control ³	1237 ± 26.3	485 ± 66.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	143 ± 5.9
100.0	170 ± 9.5
333.0	139 ± 12.0
1000.0	139 ± 7.9
3333.0	128 ± 8.1
10000.0	122 ± 7.2
Trial Summary	Negative
Positive Control ²	2604 ± 41.7
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.0	3 ± 0.3	26 ± 0.6	10 ± 2.2	23 ± 1.0
100.0	24 ± 1.2	4 ± 0.3	28 ± 2.6	13 ± 1.0	18 ± 0.6
333.0	23 ± 3.5	5 ± 1.2	25 ± 2.6	9 ± 1.2	18 ± 0.6
1000.0	19 ± 4.5	2 ± 0.3	19 ± 3.2	6 ± 0.7	13 ± 0.9
3333.0	20 ± 1.5	3 ± 1.0	17 ± 2.5	6 ± 0.9	16 ± 1.5
10000.0	15 ± 3.1	1 ± 0.7	22 ± 2.7	5 ± 0.3	13 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			215 ± 5.2	74 ± 7.4	313 ± 11.9
Positive Control ³	959 ± 20.5	1660 ± 62.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.1
100.0	14 ± 1.2
333.0	12 ± 1.8
1000.0	5 ± 0.7
3333.0	5 ± 1.2
10000.0	3 ± 0.3
Trial Summary	Negative
Positive Control ⁴	74 ± 13.8
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5	3 ± 0.3	14 ± 2.7	5 ± 0.9	14 ± 2.3
100.0	7 ± 1.5	3 ± 0.3	9 ± 0.9	6 ± 1.3	11 ± 0.9
333.0	9 ± 0.9	6 ± 1.7	5 ± 1.9	9 ± 1.2	9 ± 1.2
1000.0	5 ± 0.3	3 ± 0.9	11 ± 3.5	7 ± 1.2	11 ± 3.2
3333.0	7 ± 1.2	4 ± 1.5	9 ± 1.5	4 ± 0.7	9 ± 1.2
10000.0	8 ± 0.6	1 ± 0.9	15 ± 1.9	3 ± 0.6	7 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			245 ± 23.1	154 ± 31.4	273 ± 4.7
Positive Control ⁵	134 ± 37.8	152 ± 48.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.0
100.0	4 ± 1.5
333.0	3 ± 0.3
1000.0	5 ± 1.5
3333.0	4 ± 1.0
10000.0	2 ± 0.3
Trial Summary	Negative
Positive Control ⁴	107 ± 23.1
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.0	15 ± 2.7	43 ± 2.6	22 ± 3.8	42 ± 2.3
100.0	30 ± 5.8	12 ± 2.7	42 ± 4.1	19 ± 1.2	37 ± 3.7
333.0	29 ± 2.4	16 ± 0.9	37 ± 1.5	22 ± 0.7	44 ± 3.5
1000.0	27 ± 0.3	14 ± 2.3	36 ± 0.9	17 ± 0.0	30 ± 6.7
3333.0	25 ± 3.8	21 ± 3.2	37 ± 5.2	17 ± 1.2	36 ± 2.0
10000.0	24 ± 1.2	13 ± 1.5	39 ± 5.4	18 ± 0.9	34 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			607 ± 33.6	1053 ± 102.0	629 ± 45.4
Positive Control ⁶	179 ± 8.8	167 ± 7.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 3.4
100.0	21 ± 1.5
333.0	22 ± 0.6
1000.0	24 ± 2.5
3333.0	27 ± 5.9
10000.0	24 ± 2.5
Trial Summary	Negative
Positive Control ²	1945 ± 77.7
Positive Control ⁶	

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****